

What Is Claimed Is:

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1. A magnetic disk drive comprising:
- a magnetic disk on which servo information is stored;
  - a magnetic head for recording/reproducing information to/from said magnetic disk;
  - a driver for positioning said magnetic head over said magnetic disk; and
  - a controller for compensating the servo signal on the basis of the average value of the repeatable runout for each servo sector in a plurality of tracks of said servo information.
2. The magnetic disk drive according to claim 1, wherein said average value of the repeatable runout is stored in a non-volatile memory or on said magnetic disk.
3. The magnetic disk drive according to claim 1, wherein a servo signal compensation value based on said average value of the repeatable runout is stored in a non-volatile memory or on said magnetic disk.
4. A magnetic disk drive comprising:
- a magnetic disk on which servo information is stored;
  - a magnetic head for recording/reproducing information to/from said magnetic disk;
  - a driver for positioning said magnetic head over said magnetic disk; and
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a controller for adjusting a positioning error slice level for said magnetic head, for each servo sector, whereby data recording is halted, on the basis of the average value of the repeatable runout for each servo sector in a plurality of tracks of said servo information.

5. The magnetic disk drive according to claim 4, wherein said average value of the repeatable runout is stored in a non-volatile memory or on said magnetic disk.

6. The magnetic disk drive according to claim 4, wherein said positioning error slice level is stored in a non-volatile memory or on said magnetic disk.

Fig 9 7. A magnetic disk drive comprising:  
a magnetic disk on which servo information is stored;  
a magnetic head for recording/reproducing information to/from said magnetic disk;  
a driver for positioning said magnetic head over said magnetic disk; and  
a controller for compensating the control signal to said driver, on the basis of the average control signal to said driver for each servo sector of a plurality of tracks, and the average value of the repeatable runout for each servo sector in a plurality of tracks of said servo information.

8. The magnetic disk drive according to claim 7, wherein said average control signal is stored in a non-volatile memory or on said magnetic disk.

9. The magnetic disk drive according to claim 7,  
wherein a compensation value based on said average control  
signal is stored in a non-volatile memory or on said magnetic  
disk.

10. The magnetic disk drive according to claim 7,  
wherein said average value of the repeatable runout is stored  
in a non-volatile memory or on said magnetic disk.

11. The magnetic disk drive according to claim 7,  
wherein a servo signal compensation value based on said  
average value of the repeatable runout is stored in a non-  
volatile memory or on said magnetic disk.

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